

WHAT IS CLAIMED IS:

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1. A golf data management system comprising:

a portable communication terminal; and
a data center that transmits data to and

10 receives data from the portable communication terminal via a communication network,

wherein

the portable communication terminal comprises:

15 a recording unit that records play data including a score and measurement data obtained by measuring a position of a shot or a putt by a measuring unit;

20 a transmission unit that adds an individual identification number of a player who carries the portable communication terminal to the play data recorded by the recording unit, and transmits the play data to the data center via the communication network after holing out of each hole;

25 and

a display unit that stores the data transmitted from the data center via the communication network, and displays the stored data, and

30 the data center comprises:

an individual data storage unit that stores and manages practice result data and the play data corresponding to the individual identification number in accordance with each golf course and each play date;

35 a common data storage unit that stores course map data of a plurality of golf courses; and

an output unit that outputs the play data stored in the individual data storage unit in response to a request from the portable communication terminal.

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2. The golf data management system as
10 claimed in claim 1, wherein the data center further comprises a first output unit that receives an advice request including the measurement data obtained by the measurement unit from the portable communication terminal and the individual
15 identification number of the player added to the measurement data, and produces and transmits individual advice for the player, based on the data accompanied by the individual identification number stored in the individual data storage unit, the
20 course map data stored in the common data storage unit, and a current location on a course map according to the measurement data.

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3. The golf data management system as
claimed in claim 2, wherein the data center further comprises a second output unit that judges the
30 performance of the player by comparing a ratio of the number of failed shots to the total number of shots based on the play data stored in the individual data storage unit, and produces and outputs, in response to the advice request,
35 individual advice for the player based on play data and practice data stored in the individual data storage unit in accordance with a judgment result of

the performance.

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4. The golf data management system as claimed in claim 1, wherein
the portable communication terminal comprises:

10 a recording part that records measurement data obtained by the measurement unit when an input button is pressed at a location of a shot or a putt; and

15 a communication part that adds an uploading header to the play data recorded by the recording part when a holed-out button is pressed at a time of sinking a ball in cup, and transmits the play data with the uploading header to the data center via the communication network, and

20 the data center stores the play data and practice data obtained during a practice in the individual data storage unit in accordance with the uploading header.

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5. The golf data management system as claimed in claim 1, wherein

30 the data center comprises a group data storage unit that manages data on performance of a sub-group in which each member carries the portable communication terminal, and

35 a distribution processing unit that distributes the play data from the individual storage unit to each portable communication terminal of the sub-group when it is determined that all

members of the sub-group have holed out.

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6. The golf data management system as
claimed in claim 5, further comprising a unit that
registers the sub-group in the group data storage
unit based on the measurement data obtained when a
10 shot button is pressed at a tee shot.

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7. A data center that transmits and
receives data with a portable communication terminal
via a communication network, said data center
comprising:

an individual data storage unit that
20 stores play data accompanied by an individual
identification number of a player and practice data;
a common data storage unit that stores
course map data of a plurality of golf courses;
a group data storage unit that manages a
25 group of accompanying players; and
a data analysis unit that produces and
outputs, in response to an advice request, advice on
a shot or a putt for the individual player at a
current location, based on individual data stored in
30 the individual data storage unit, the course map
data stored in the common data storage unit, and
measurement data supplied from the portable
communication terminal.

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8. The data center as claimed in claim 7,
further comprising:

- a group data storage unit that manages
data on performance of each of accompanying players
5 that constitute a sub-group or a group made up of a
plurality of sub-groups; and
a distribution processing unit that
determines store data from the individual data
storage unit when it is determined that all members
10 in a sub-group have holed out, and distributes the
score data to all the members in the sub-group.

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9. A method of managing golf data of each
individual player, which golf data is transmitted
between a portable communication terminal and a data
center via a communication network,

- 20 said method comprising the steps of:
storing course map data of a plurality of
golf courses in a common data storage unit;
receiving play data including measurement
data and a score provided with an individual
25 identification number supplied from the portable
communication terminal, or practice data provided
with the individual identification number;
storing and managing the received data in
an area corresponding to the individual
30 identification number in the individual data storage
unit;
reading out the course map data from the
common data storage unit or the play data
corresponding to the individual identification
35 number from the individual data storage unit, in
response to a course map data request or a play data
request provided with the individual identification

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number supplied from the portable communication terminal; and

transmitting the read-out course map data or the play data to the portable communication terminal.

5 terminal.

10 10. The method as claimed in claim 9,
further comprising the steps of:

determining a current location on the course map according to the measurement data, in response to an advice request provided with the individual identification number and the measurement data supplied from the portable communication terminal;

producing advice data on choice of a golf club or a shot at the current location based on the play data and the practice data corresponding to the individual identification number stored in the individual data storage unit; and

transmitting the advice data to the portable communication terminal that has issued the advice request.

30 11. The method as claimed in claim 10,
further comprising the steps of:

determining the current location on the course map according to the measurement data in response to an advice request provided with the individual identification number and the measurement data supplied from the portable communication terminal;

analyzing the play data and the practice data corresponding to the individual identification number stored and managed by the individual data storage unit;

5 producing the advice data on the choice of golf clubs and shots based on performance data obtained from a failed shot ratio, shot distance data of each golf club, and target distance data; and

10 transmitting the advice data to the portable communication terminal that has issued the advice request.

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12. The method as claimed in claim 10, further comprising the steps of:

20 storing and managing the individual identification number and data on performance of each of players that constitute a sub-group or a group made up of a plurality of sub-groups in a group data storage unit;

25 reading out the play data of each member in the sub-group from the individual data storage unit when it is determined that all members in the sub-group have holed out; and

distributing the read-out play data to each of the members in the sub-group.

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13. The method as claimed in claim 10, further comprising the steps of:

transmitting the course map data of the plurality of golf courses from the common storage

unit in response to a request from the portable communication terminal; and

- charging the portable communication terminal with a fixed amount of money or a service charge corresponding to the amount of provided data when the data stored in the individual data storage unit and advice data on the play are transmitted in response to a request from the portable communication terminal.
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14. The method as claimed in claim 13,
15 further comprising the steps of:

- lending the terminal portable communication terminal to a player;
- registering the player in the data center using the portable communication terminal;
- transmitting the play data from the portable communication terminal to the data center;
- storing and managing the play data in the individual data storage unit;
- transmitting course map data or advice data in response to a service request supplied from the portable communication terminal; and
- charging the player with a service charge for the service rendered in response to the service request.
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